

JVC

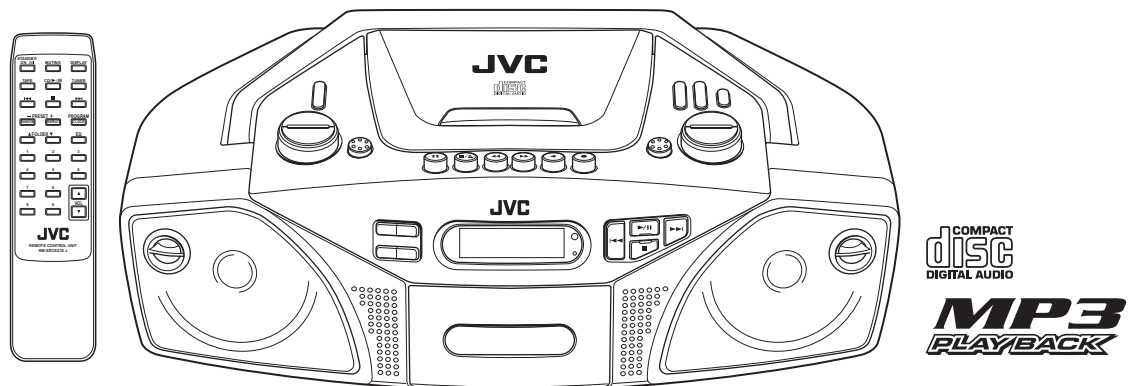
SERVICE MANUAL

CD PORTABLE SYSTEM

**RC-EZ35SJ, RC-EZ35SC,
RC-EZ32SJ, RC-EZ32SC,
RC-EZ31BJ, RC-EZ31BC**

SERVICE POLICY

No service part is available for this model.
Exchange only.



Lead free solder used in the board (material : Sn-Ag-Cu, melting point : 219 Centigrade)

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SPECIFICATION

RC-EZ35S

Compact disc player section	Type	Compact disc player
	Signal detection	Non-contact optical pick-up (semiconductor laser)
	Number of channels	2 channels
Radio section	Frequency ranges	FM 87.5 MHz - 108.0 MHz AM 520 kHz - 1 710 kHz
	Antennas	Telescopic antenna for FM Ferrite core antenna for AM
Cassette deck section	Track	4-track 2-channel stereo
	Motor	Electronic governor DC motor for capstan
	Heads	Hard permalloy head for recording/playback, magnetic head for erase
	Fast wind time	Approx. 120 sec. (C-60 cassette)
General	Speaker	10 cm × 2 (4 Ω, 3 W)
	Power output	2 W per channel, min. RMS, driven into 4 Ω at 1 kHz with no more than 10 % total harmonic distortion
	Output terminals	PHONES × 1 (Ø 3.5 mm, stereo)
	Power supply	AC 120 V , 60 Hz DC 12 V ("R20/D (13F)" cells × 8)
	Power consumption	17 W (at operation) 1.5 W (at standby)
	Dimensions	435 mm (W) × 156 mm (H) × 241 mm (D) (17 3/16 in × 6 3/16 in × 9 1/12 in)
	Mass	Approx. 2.8 kg (6.2 lbs) (without batteries)

RC-EZ32S

Compact disc player section	Type	Compact disc player
	Signal detection	Non-contact optical pick-up (semiconductor laser)
	Number of channels	2 channels
Radio section	Frequency ranges	FM 87.9 MHz - 107.9 MHz AM 520 kHz - 1 710 kHz
	Antennas	Telescopic antenna for FM Ferrite core antenna for AM
Cassette deck section	Track	4-track 2-channel stereo
	Motor	Electronic governor DC motor for capstan
	Heads	Hard permalloy head for recording/playback, magnetic head for erase
	Fast wind time	Approx. 120 sec. (C-60 cassette)
General	Speaker	10 cm × 2 (4 Ω, 3 W)
	Power output	2 W per channel, min. RMS, driven into 4 Ω at 1 kHz with no more than 10 % total harmonic distortion
	Output terminals	PHONES × 1 (Ø 3.5 mm, stereo)
	Power supply	AC 120 V , 60 Hz DC 12 V ("R20/D (13F)" cells × 8)
	Power consumption	17 W (at operation) 1.5 W (at standby)
	Dimensions	435 mm (W) × 156 mm (H) × 241 mm (D) (17 3/16 in × 6 3/16 in × 9 1/12 in)
	Mass	Approx. 2.8 kg (6.2 lbs) (without batteries)

RC-EZ31B

Compact disc player section	Type	Compact disc player
	Signal detection	Non-contact optical pick-up (semiconductor laser)
	Number of channels	2 channels
Radio section	Frequency ranges	FM 88 MHz - 108 MHz AM 530 kHz - 1 700 kHz
	Antennas	Telescopic antenna for FM Ferrite core antenna for AM
Cassette deck section	Track	4-track 2-channel stereo
	Motor	Electronic governor DC motor for capstan
	Heads	Hard permalloy head for recording/playback, magnetic head for erase
	Fast wind time	Approx. 120 sec. (C-60 cassette)
General	Speaker	10 cm × 2 (4 Ω, 3 W)
	Power output	2 W per channel, min. RMS, driven into 4 Ω at 1 kHz with no more than 10 % total harmonic distortion
	Output terminals	PHONES × 1 (Ø 3.5 mm, stereo)
	Power supply	AC 120 V , 60 Hz DC 12 V ("R20/D (13F)" cells × 8)
	Power consumption	17 W (at operation) 1.5 W (at standby)
	Dimensions	435 mm (W) × 156 mm (H) × 241 mm (D) (17 3/16 in × 6 3/16 in × 9 1/12 in)
	Mass	Approx. 2.8 kg (6.2 lbs) (without batteries)

Design and specifications are subject to change without notice.

SECTION 1

PRECAUTION

1.1 Safety Precautions

- (1) This design of this product contains special hardware and many circuits and components specially for safety purposes. For continued protection, no changes should be made to the original design unless authorized in writing by the manufacturer. Replacement parts must be identical to those used in the original circuits. Services should be performed by qualified personnel only.
- (2) Alterations of the design or circuitry of the product should not be made. Any design alterations of the product should not be made. Any design alterations or additions will void the manufacturers warranty and will further relieve the manufacture of responsibility for personal injury or property damage resulting therefrom.
- (3) Many electrical and mechanical parts in the products have special safety-related characteristics. These characteristics are often not evident from visual inspection nor can the protection afforded by them necessarily be obtained by using replacement components rated for higher voltage, wattage, etc. Replacement parts which have these special safety characteristics are identified in the Parts List of Service Manual. Electrical components having such features are identified by shading on the schematics and by (Δ) on the Parts List in the Service Manual. The use of a substitute replacement which does not have the same safety characteristics as the recommended replacement parts shown in the Parts List of Service Manual may create shock, fire, or other hazards.
- (4) The leads in the products are routed and dressed with ties, clamps, tubings, barriers and the like to be separated from live parts, high temperature parts, moving parts and/or sharp edges for the prevention of electric shock and fire hazard. When service is required, the original lead routing and dress should be observed, and it should be confirmed that they have been returned to normal, after reassembling.

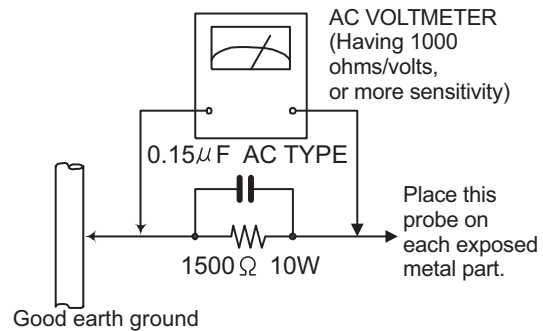
(5) Leakage shock hazard testing

After reassembling the product, always perform an isolation check on the exposed metal parts of the product (antenna terminals, knobs, metal cabinet, screw heads, headphone jack, control shafts, etc.) to be sure the product is safe to operate without danger of electrical shock. Do not use a line isolation transformer during this check.

- Plug the AC line cord directly into the AC outlet. Using a "Leakage Current Tester", measure the leakage current from each exposed metal parts of the cabinet, particularly any exposed metal part having a return path to the chassis, to a known good earth ground. Any leakage current must not exceed 0.5mA AC (r.m.s.).
- Alternate check method
Plug the AC line cord directly into the AC outlet. Use an AC voltmeter having, 1,000 Ω per volt or more sensitivity in the following manner. Connect a 1,500 Ω 10W resistor paralleled by a 0.15 μ F AC-type capacitor between an exposed metal part and a known good earth ground. Measure the AC voltage across the resistor with the AC

voltmeter.

Move the resistor connection to each exposed metal part, particularly any exposed metal part having a return path to the chassis, and measure the AC voltage across the resistor. Now, reverse the plug in the AC outlet and repeat each measurement. Voltage measured any must not exceed 0.75 V AC (r.m.s.). This corresponds to 0.5 mA AC (r.m.s.).



1.2 Warning

- (1) This equipment has been designed and manufactured to meet international safety standards.
- (2) It is the legal responsibility of the repairer to ensure that these safety standards are maintained.
- (3) Repairs must be made in accordance with the relevant safety standards.
- (4) It is essential that safety critical components are replaced by approved parts.
- (5) If mains voltage selector is provided, check setting for local voltage.

1.3 Caution

Burrs formed during molding may be left over on some parts of the chassis.

Therefore, pay attention to such burrs in the case of pre-forming repair of this system.

1.4 Critical parts for safety

In regard with component parts appearing on the silk-screen printed side (parts side) of the PWB diagrams, the parts that are printed over with black such as the resistor (\blacksquare), diode (\blacksquare) and ICP (\bullet) or identified by the " Δ " mark nearby are critical for safety. When replacing them, be sure to use the parts of the same type and rating as specified by the manufacturer.

(This regulation dose not Except the J and C version)

1.5 Important for laser products

1.CLASS 1 LASER PRODUCT

2.CAUTION : Visible and/or invisible class 1M laser radiation when open. Do not view directly with optical instruments.

3.ATTENTION : Rayonnement laser visible et/ou invisible de classe 1M une fois ouvert. Ne pas regarder directement avec des instruments optiques.

4.CAUTION : This laser product uses visible and/or invisible laser radiation and is equipped with safety switches which prevent emission of radiation when the drawer is open and the safety interlocks have failed or are defeated. It is dangerous to defeat the safety switches.

5.CAUTION : If safety switches malfunction, the laser is able to function.

6.CAUTION : Use of controls, adjustments or performance of procedures other than those specified here in may result in hazardous radiation exposure.



CAUTION Please use enough caution not to see the beam directly or touch it in case of an adjustment or operation check.

CAUTION : Invisible laser radiation when open and interlock failed or defeated.
Avoid direct exposure to beam.

ATTENTION : Risque de radiations laser visible and invisible quand l'appareil est ouvert et que le systeme de verrouillage ne fonctionne pas ou a ete mis hors service. Evitez toute exposition directe au rayon.

SECTION 2 SPECIFIC SERVICE INSTRUCTIONS

This service manual does not describe SPECIFIC SERVICE INSTRUCTIONS.

SECTION 3 DISASSEMBLY

This service manual does not describe DISASSEMBLY.

SECTION 4 ADJUSTMENT

This service manual does not describe ADJUSTMENT.

SECTION 5 TROUBLESHOOTING

This service manual does not describe TROUBLESHOOTING.



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